

Newsletter 3

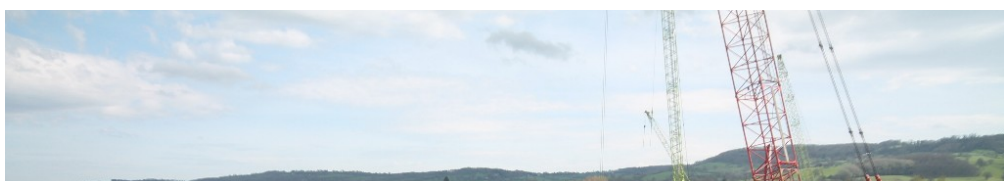
[Campaign Preview](#)[HTML Source](#)[Plain-Text Email](#)[Details](#)**Balfour Beatty****UBB (Gloucestershire) Construction JV**
Gloucestershire Energy from Waste Facility

Thank you for subscribing to the quarterly newsletter from the new Gloucestershire Energy from Waste Facility now under construction at Javelin Park, close to Junction 12 of the M5 at Gloucester. The project is part of a joint venture between Urbaser and Balfour Beatty (UBB) and forms a key element of Gloucestershire's waste and resource strategy to reduce, recycle and recover value from waste.

Despite a few instances of quite severe weather in recent weeks progress on site continues apace, and we are starting to see some of the building structures appearing above ground.

In addition to this quarterly community-based newsletter, we also publish regular construction update bulletins and attend regular Community Liaison Group meetings. To find out more about these, please visit our website www.ubbgloucestershire.co.uk or for any queries please contact us directly: info@ubbgloucestershire.co.uk or contact Community & Engagement Manager Ian Barber on 07785 955 675.

With best wishes,
Andrew Bendall,
Urbaser Balfour Beatty Project Director





Project Update

We brought piling rigs back on to site in May to undertake further foundation piling, mainly in the area of the waste bunker. Work can now progress to excavate the main bunker down to 14 metres below ground level.

The main focus on site is still casting reinforced concrete bases and foundations, which supports the process plant and buildings. Much of the structural work is ongoing below ground level, although in the area of the Incinerator Bottom Ash (IBA) process hall, the walls of the storage and maturation bays are starting to emerge above ground.

To make most efficient use of resources and time we have secured an agreement with the Waste Planning Authority to extend the construction working hours at the site, meaning we will be working weekends and some late week day evenings.

This extension in construction working hours is not a blanket approval, but a framework that allows us to work these extended hours to an agreed schedule of activities, and with due notice given to our near neighbours, at the regulatory authorities. With this regime now in place, and work continuing over most weekends, we have received no adverse comments to date.





A View from Above

This picture, taken in early June, shows the main site construction in the centre and the temporary construction compound, offices and car park in the background.

The area of the main boiler hall and waste bunker can be seen in the centre-right of the photo, with the sides of the building's excavation works supported by vertical concrete piles. The boiler hall floor will be seven metres below ground level, with the bunker floor some 14 metres below ground level when fully excavated.

To the right of the main excavation are the light coloured concrete pads (bases) that will support the flue gas treatment plant and building. This part of the building houses the treatment and filtration equipment that ensure the emissions from the facility's stack comply with the limits imposed through the plant's Environmental Permit which are set in response to the legal requirements of the Industrial Emissions Directive.

To the left of the boiler excavation is the site of the waste reception and tipping hall, where waste delivery vehicles will discharge their loads into the waste storage bunker, and further to the left, the floors and walls of the bottom ash processing hall are starting to appear.



In the spotlight: Siobhan Traynor, Senior Document Controller

At the heart of the construction programme for the Energy from Waste facility lies an enormous and complex suite of interrelated documents covering design, procurement, contract schedules and operating manuals. Making sure that all this information is controlled, collated, distributed and managed is the task of Senior Document Controller, Siobhan Traynor.

Roughly how many documents, reports, and schedules are under your control to manage every day?

...ing, not many documents, reports, and schedules are under your control to manage every day. We currently have over 20,000 documents in our system and I anticipate this figure will triple within the next year. I maintain all areas and disciplines of documentation throughout the lifecycle of the project. My current focus is the interface between design management and construction activities, and ensuring all of the information is approved and signed off before handing over to site operatives.

The computer must be your friend in this task?

Yes. We use a software package called Business Collaborator which is a 'common data environment' that stores processes and manages all of our project documentation. It's a collaboration tool, so all companies working on the project can collectively access, change and work with documentation without impact to cost, quality and time.

Is this your first Energy from Waste Project?

Surprisingly no, I have over 10 years' experience in the Energy industry, working on pipeline projects and Combined Cycle Gas Turbine (CCGT) power stations before starting with Energy from Waste (EfW) facilities in 2009. This current project will be my fourth EfW build, and I'm proud to be part of it.

What skills/qualifications etc. are required to fulfil your role?

At the heart of it, exceptional organisational skills, a high attention to detail and accuracy, and advanced IT skills are key. Also, a clear understanding of the contract and technical aspects, and to comply with your employer's requirements.

Document control is based on the British standard for Quality Management Systems - ISO 9001:2015. I have completed an Engineering & Construction Industry Training Board course in Document Management, British Standards Institute Introduction to ISO 9001 Course, and a British Standards Institute ISO:9001 Internal Auditor Course.

With respect, the job description might not set everyone's pulse racing - what gives you a buzz?

Several aspects stand out to me: I enjoy the fast paced environment, which sets you to challenge yourself on a regular basis. Being based on site, it is always satisfying to watch the building develop over time in front of your eyes. Also, my general curious nature means I have gained a vast technical knowledge of the mechanical and civil processes just from carrying out my role each day - it is fascinating!





Water, Water, Everywhere

Wherever you go on an EfW facility the use, management and control of water is critical to the plant's performance.

As a power station the facility raises steam from mains water that first passes through a demineralisation plant and is subsequently re-circulated through the 'steam cycle' creating electricity through the turbine. Though mainly air-cooled, some of this water is also used to cool the combustion furnace grate.

Some clean rainwater will be harvested from the tipping hall roof and will be used in the administration block a visitor centre in toilet facilities or in the quench bath to help cool the hot ashes from the base of the combustion grate, reducing the demand for mains water supply.

Fire control and management systems are essential components in the operational plan. A comprehensive suite of sprinklers and water cannons at strategic locations is supported by a 1,400 cubic metre fire water tank on the site.

The surface water drainage system for the whole site is best practised under SUDS (Sustainable Drainage Systems). The drainage design means that clean surface water runoff is controlled to prevent inundation or flooding of adjacent land, whilst at the same time providing the opportunity to create open water and wetland nature conservation habitats. The system also helps to control discharge into the existing local watercourse, and we endeavour not to impact on existing habitats and wildlife.

The management of water on an EfW site really does follow the principles of the Waste Hierarchy – where possible: Reduce, Reuse, Recycle and Recover value from water throughout the facility.



Updates from the Community Liaison Group

The CLG last met on 16 May on site at Gloucestershire EfW to discuss the most recent update on construction progress, with a two-month and six-month lookahead to future activities.

There was also an update on proposed off-site tree planting, and feedback from a recent visit by some members to an operational EfW plant in Worcestershire.

The minutes of this meeting, and all previous meetings, are posted on the UBB website [here](#).



Balfour Beatty

UBB (Gloucestershire) Construction
Gloucestershire Energy from Waste Facility

www.ubbgloucestershire.co.uk

For more information contact info@ubbgloucestershire.co.uk

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